

539, 472

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/058640 A1

(51) International Patent Classification⁷: **C01B 15/10, C11D 17/00, 3/39**

(21) International Application Number:
PCT/EP2003/014815

(22) International Filing Date:
22 December 2003 (22.12.2003)

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
02102888.1 24 December 2002 (24.12.2002) EP

(71) Applicant (for all designated States except US): **SOLVAY (SOCIÉTÉ ANONYME) [BE/BE]; Rue du Prince Albert, 33, B-1050 BRUSSELS (BE).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RABE, Jüergen, H. [DE/DE]; Arienheller, 3, 56598 RHEINBROHL (DE). VENBRUX, Henk [NL/BE]; Arboretumlaan, 29, B-3080 TERVUREN (BE).**

(74) Agents: **VANDE GUCHT, Anne et al.; SOLVAY (Société Anonyme), Intellectual Property Department, Rue de Ransbeek, 310, B-1120 BRUSSELS (BE).**

(81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

(84) Designated States (regional): **ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)**
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation **US**
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation **US**
- of inventorship (Rule 4.17(iv)) for **US only**

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **COATED SODIUM PERCARBONATE PARTICLES, PROCESS FOR THEIR PREPARATION, THEIR USE AND DETERGENT COMPOSITIONS CONTAINING THEM**

(57) Abstract: Coated sodium percarbonate particles containing a sodium percarbonate core surrounded by at least one coating layer comprising at least one inorganic coating material, the coated particles having a content of available oxygen of at least 3 % by weight, and being fizzy to such an extent that 2 g of the coated particles dissolved in 50 ml of water at 20°C generate more than 0,4 ml of gas after 2 min. Process for the preparation of such coated sodium percarbonate particles comprising a heat treatment.

WO 2004/058640 A1